

**AUTOMATION-OPTIMIZED MICROARRAY PACKAGE****ABSTRACT OF THE DISCLOSURE**

A method and system for economically packaging microarrays into sealed reaction chambers and storage vessels. A pocket strip is manufactured as a linear sequence of pockets, or wells, into which microarrays are positioned. A cover strip is then heat sealed to the upper surface of the pocket strip to create a linear sequence of sealed reaction chambers or storage vessels each containing a microarray. Mechanical features or optical features are included along the length of the pocket strip to facilitate mechanical translation and positioning of microarrays embedded within the microarray strip. Septa are affixed to, or embedded within, the cover strip to provide resealable ports through which solutions can be introduced into, or extracted from, the reaction chambers.

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